

Philips Momentum  
QHD LCD monitor

## Momentum

27" (68.5 cm)  
2560 x 1440 (QHD)

275M1RZN



# Take gaming to the next level

This Momentum QHD gaming monitor delivers a new level of immersion. AMD FreeSync™, LowInput lag and 170Hz fast refresh rate offer smooth gaming. Nano IPS display delivers vibrant color and a wide viewing angle.

### Built for fast action

- AMD FreeSync™ Premium; tear free, stutter free, fluid gaming
- 170Hz refresh rates for ultra-smooth, brilliant images
- 1ms (MPRT) fast response for crisp image and smooth gameplay
- Low input lag reduces time delay between devices to monitor

### Expand your viewing experience

- IPS Nano color technology extends gamut for vibrant visuals
- Crystalclear images with Quad HD 2560 x 1440 pixels
- High Dynamic Range (HDR) for more lifelike colorful visuals

### Features designed for gamers needs

- SmartImage game mode optimized for gamers
- LowBlue Mode for easy on-the-eyes productivity
- Less eye fatigue with Flicker-free technology
- Tilt, swivel and height-adjust for an ideal viewing position



# PHILIPS

QHD LCD monitor  
Momentum 27" (68.5 cm), 2560 x 1440 (QHD)

# Highlights

## IPS Nano color



For critical imaging, gaming and productivity needs, Nano IPS display provides precise color accuracy across a wide viewing angle without color shift. Richer reds, lusher greens, and deeper blues. Ultra Wide-Color with IPS Nano Color technology uses KSF enhanced phosphor nanoparticles to absorb excess light created by the screen to produce amazing color. True-to-life color. Our display panels achieve up to 98% coverage of the DCI-P3 color gamut standard for color purity as defined by The Society of Motion Pictures and Television Engineers for cinematic picture quality.

## AMD FreeSync™ Premium



Gaming shouldn't be a choice between choppy gameplay or broken frames. AMD FreeSync™ Premium equips serious gamers with a fluid, tear-free gameplay experience at peak performance. There are no compromises, game confidently with a high refresh rate, low framerate compensation, and low latency.

## 170Hz Gaming



You play intense, competitive gaming. You demand display with lag free, ultra-smooth images. This Philips display redraws the screen image up-to 170 times per second, effectively faster than a standard display. A lower frame rate can make enemies appear to jump from spot to spot on the screen, making them difficult targets to hit. With 170Hz frame rate, you get those critical missing images on the screen which shows enemy movement in ultra-smooth motion so you can easily target them. With ultra-low input lag and no screen tearing, this Philips display is your perfect gaming partner

## 1ms MPRT fast response



MPRT (motion picture response time) is more intuitive way to describe the response time, which directly refers the duration from seeing blurry noise to clean and crisp images. Philips gaming monitor with 1 ms MPRT effectively eliminates smearing and motion blur, delivers sharper and precise visuals to enhance gaming

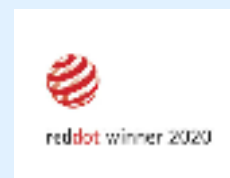
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experience. Best choice for playing thrilling and twitch-sensitive games.

## Low Input Lag



Input lag is the amount of time that elapses between performing an action with connected devices and seeing the result on screen. Low input lag reduces the time delay between entering a command from your devices to monitor, greatly improve on playing twitch-sensitive video games, particularly important to whom plays fast-paced, competitive games.



## Red Dot

Red Dot stands for belonging to the best in design and business

This gaming monitor scores with the striking base, which radiates a solid presence and thereby underlines the quality of the monitor.



# Specifications

## Picture/Display

- LCD panel type: IPS technology
- Backlight type: W-LED system
- Panel Size: 27 inch / 68.5 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 596.736 (H) x 335.664 (V) mm
- Aspect ratio: 16:9
- Maximum resolution: 2560 x 1440 @ 170 Hz\* (DP -> overclock); 2560 x 1440 @ 144 Hz (HDMI)
- Pixel Density: 109 PPI
- Response time (typical): 1 ms (Gray to Gray)\*
- MPRT: 1 ms
- Low Input Lag
- Brightness: 350 cd/m<sup>2</sup>
- SmartContrast: Mega Infinity DCR
- Contrast ratio (typical): 1000:1
- Pixel pitch: 0.2331 x 0.2331 mm
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- Flicker-free
- HDR: HDR ready
- Color gamut (min.): DCI-P3 Coverage: 98%\*
- Color gamut (typical): NTSC 110%\*, sRGB 130%\*, Adobe RGB 110%\*
- Picture enhancement: SmartImage game
- Display colors: 1.07 Billion (8 bits + FRC)\*
- Scanning Frequency: HDMI: 30 - 230 kHz (H) / 48 - 144 Hz (V); DP: 30 - 255 kHz (H) / 48 - 170 Hz (V)
- SmartUniformity: 97 ~ 102%
- Delta E: < 2 (sRGB)
- sRGB
- LowBlue Mode
- AMD FreeSync™ technology: Premium

## Connectivity

- Signal Input: HDMI 2.0 x 2, DisplayPort x 1
- Audio (In/Out): Headphone out
- Sync Input: Separate Sync

## Convenience

- User convenience: Power On/Off, Menu/OK, Input/Up, Game Settings/Down, SmartImage game/Back
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Simplified Chinese, Swedish, Turkish, Traditional Chinese, Ukrainian
- Other convenience: Kensington lock, VESA mount (100x100mm)
- Plug & Play Compatibility: DDC/CI, Mac OS X,

sRGB, Windows 10 / 8.1 / 8 / 7

## Stand

- Height adjustment: 130 mm
- Swivel: -/+ 35 degree
- Tilt: -5/20 degree

## Power

- On mode: 46.2 W (typ.)
- Standby mode: 0.5 W (typ.)
- Off mode: 0.3 W (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)
- Power supply: External, 100-240VAC, 50-60Hz

## Dimensions

- Product with stand(max height): 614 x 567 x 251 mm
- Product without stand (mm): 614 x 370 x 75 mm
- Packaging in mm (WxHxD): 730 x 475 x 224 mm

## Weight

- Product with stand (kg): 5.96 kg
- Product without stand (kg): 3.82 kg
- Product with packaging (kg): 8.60 kg

## Operating conditions

- Temperature range (operation): 0°C to 40 °C
- Temperature range (storage): -20°C to 60 °C
- Relative humidity: 20%-80 %
- Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- MTBF: 50,000 (Excluded backlight) hour(s)

## Sustainability

- Environmental and energy: RoHS
- Recyclable packaging material: 100 %
- Specific Substances: Mercury free, PVC / BFR free housing

## Compliance and standards

- Regulatory Approvals: CCC, CEL, CECP, CB, CE Mark

## Cabinet

- Color: Black
- Finish: Textured / Glossy

## Design

- Designed in Amsterdam, NL



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\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.  
\* The maximum resolution works for DP input only.  
\* For best output performance, please always ensure that your graphic card is capable of achieving the maximum resolution and refresh rate of this Philips display.  
\* Response time value equal to SmartResponse  
\* MPRT is to adjust brightness for blur reduction, so cannot adjust brightness while MPRT is turned on. To reduce motion blur, LED backlight will strobe synchronously with screen refresh, which may cause noticeable brightness change.  
\* MPRT is gaming-optimized mode. Turn on MPRT may cause noticeable screen flickering. It is recommended to turn off when you are not using the gaming function.  
\* BT. 709 / DCI-P3 Coverage based on CIE1976  
\* NTSC Area based on CIE1976  
\* sRGB Area based on CIE1931  
\* Adobe RGB Coverage based on CIE1976  
\* Display colors: 10 bits only can be reached by QHD @ 120 Hz  
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\* The monitor may look different from feature images.